



Outbreak Requirements from the NEDSS Project

Joseph A. Reid, Ph.D.
Associate Director for Science
CDC/IRMO



Last Modified:



Coordination Requirements



- Exchange of NEDSS investigation data with outbreak management systems
- Exchange of NEDSS patient registry data with outbreak management systems
- Exchange of outbreak data with facilities health systems and environmental health systems



Timeliness Requirements



- Rapid recognition of clusters
- Rapid response clusters
- Rapid communication
- Rapid and effective contact identification and tracing



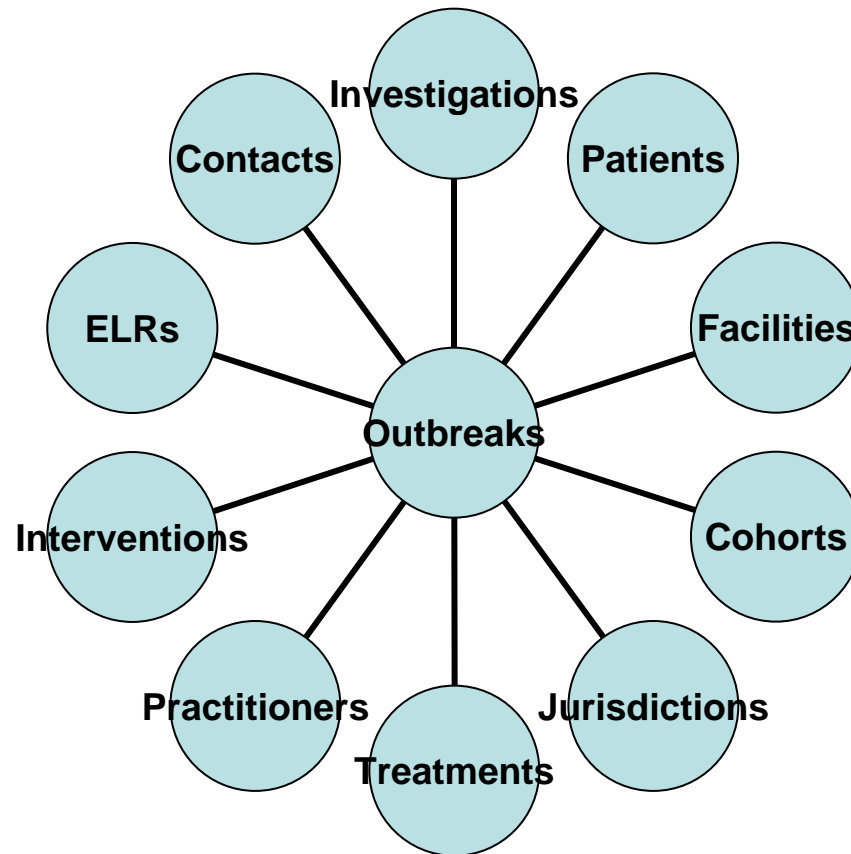
Protocol Requirements



- Declaring a cluster of cases an outbreak is an act of high political importance.
- Declaration of outbreaks requires the exercise of a specific authorization chain and specific roles
- Protocol related data elements include official beginning date and time, official ending date and time



Data Linkage Requirements



All relationships are many-to-many

SAFER • HEALTHIER • PEOPLE™

Last Modified:



Functional Requirements



- Support for changing case definitions and identification procedures
- Support for changing cluster definition and identification procedures
- Outbreak definition and identification
- Effective access to retrospective data
- Highly tuned and effective aberration detection
- Automatic case and outbreak definition and identification
- Specialized Analysis, Visualization and Reporting Capabilities
- Support merging and splitting of outbreaks.
- Support for intra-state notification.
- Support for suspect cases
- Support for disease vectors
- Support for transmission mode
- Support for multiple locations
- Tracking of isolation and quarantine